SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
PET RELEAF
8100 SOUTHPARK WAY A3
LITTLETON, CO USA 80120

Organic Hemp Oil 750mg

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 5
1222T404	Various	Concentrate	
Reported:	Started:	Received:	
22Dec2022	21Dec2022	21Dec2022	

Residual Solvents - Colorado Compliance

Test ID: T000231401
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	96 - 1911	ND	
Butanes (Isobutane, n-Butane)	194 - 3872	ND	
Methanol	65 - 1305	ND	
Pentane	103 - 2055	ND	
Ethanol	105 - 2110	ND	
Acetone	104 - 2082	ND	
Isopropyl Alcohol	110 - 2201	ND	
Hexane	6 - 125	ND	
Ethyl Acetate	108 - 2154	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	107 - 2131	ND	
Toluene	19 - 386	ND	
Xylenes (m,p,o-Xylenes)	145 - 2898	ND	

Final Approval

Karen Winternheimer
22Dec2022
11:09:00 AM MST
PREPARED BY / DATE

Sam Smith
22Dec2022
11:12:00 AM MST
APPROVED BY / DATE

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Cannabinoids - Colorado Compliance

Test ID: T000231397
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	**LOD** (%)	**LOQ** (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.005	0.020	0.096	0.96	
Cannabichromenic Acid (CBCA)	0.005	0.018	ND	ND	
Cannabidiol (CBD)	0.019	0.057	2.775	27.75	
Cannabidiolic Acid (CBDA)	0.020	0.058	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.008	0.024	ND	ND	
Cannabigerol (CBG)	0.003	0.011	0.056	0.56	
Cannabigerolic Acid (CBGA)	0.012	0.047	ND	ND	
Cannabinol (CBN)	0.004	0.015	0.019	0.19	
Cannabinolic Acid (CBNA)	0.008	0.032	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.014	0.056	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.013	0.051	0.098	0.98	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.011	0.045	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.010	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.010	0.040	ND	ND	
Total Cannabinoids			**3.044**	**30.44**	
Total Potential THC			0.098	0.98	
Total Potential CBD			2.775	27.75	

Final Approval

Karen Winternheimer
23Dec2022
11:29:00 AM MST
PREPARED BY / DATE

Sam Smith
23Dec2022
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Pesticides

Test ID: T000231398
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	292 - 2645	ND	Malathion	281 - 2712	ND
Acephate	1 - 2759	ND	Metalaxyl	38 - 2730	ND
Acetamiprid	41 - 2737	ND	Methiocarb	42 - 2746	ND
Azoxystrobin	42 - 2721	ND	Methomyl	43 - 2756	ND
Bifenazate	43 - 2711	ND	MGK 264 1	190 - 1588	ND
Boscalid	45 - 2703	ND	MGK 264 2	122 - 1133	ND
Carbaryl	43 - 2731	ND	Myclobutanil	51 - 2724	ND
Carbofuran	41 - 2721	ND	Naled	58 - 2745	ND
Chlorantraniliprole	44 - 2788	ND	Oxamyl	40 - 2728	ND
Chlorpyrifos	39 - 2722	ND	Paclobutrazol	40 - 2725	ND
Clofentezine	266 - 2713	ND	Permethrin	305 - 2650	ND
Diazinon	282 - 2714	ND	Phosmet	40 - 2697	ND
Dichlorvos	262 - 2765	ND	Prophos	281 - 2758	ND
Dimethoate	37 - 2726	ND	Propoxur	38 - 2705	ND
E-Fenpyroximate	281 - 2736	ND	Pyridaben	286 - 2700	ND
Etofenprox	42 - 2709	ND	Spinosad A	33 - 2235	ND
Etoxazole	302 - 2710	ND	Spinosad D	48 - 495	ND
Fenoxycarb	44 - 2739	ND	Spiromesifen	275 - 2731	ND
Fipronil	44 - 2757	ND	Spirotetramat	285 - 2732	ND
Flonicamid	55 - 2649	ND	Spiroxamine 1	18 - 1177	ND
Fludioxonil	281 - 2733	ND	Spiroxamine 2	22 - 1559	ND
Hexythiazox	42 - 2752	ND	Tebuconazole	287 - 2758	ND
Imazalil	268 - 2735	ND	Thiacloprid	43 - 2722	ND
Imidacloprid	42 - 2704	ND	Thiamethoxam	46 - 2760	ND
Kresoxim-methyl	43 - 2761	ND	Trifloxystrobin	41 - 2732	ND

Final Approval

Karen Winternheimer
24Dec2022
05:41:00 PM MST
PREPARED BY / DATE

Sam Smith
24Dec2022
05:43:00 PM MST
APPROVED BY / DATE

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Heavy Metals - Colorado Compliance

Test ID: T000231400
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.38	ND	
Cadmium	0.04 - 4.35	ND	
Mercury	0.04 - 4.34	ND	
Lead	0.04 - 4.08	ND	

Final Approval


Sam Smith
29Dec2022
08:22:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
29Dec2022
08:25:00 AM MST
APPROVED BY / DATE

Microbial Contaminants - Colorado Compliance

Test ID: T000231399
Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)

	Method	**LOD**	**Quantitation Range**	**Result**	**Notes**
STEC	TM25: PCR	10^0 CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10^0 CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10^1 CFU/g	$1.0x10^2$ - $1.5x10^4$	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10^2 CFU/g	$1.0x10^3$ - $1.5x10^5$	None Detected	
Total Coliforms*	TM27: Culture Plating	10^1 CFU/g	$1.0x10^2$ - $1.5x10^4$	None Detected	

Final Approval


Brett Hudson
30Dec2022
03:32:00 PM MST
PREPARED BY / DATE


Brianne Maillot
31Dec2022
05:32:00 PM MST
APPROVED BY / DATE

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APPROVED: Richie Bryan QA/QC 1/4/2023

https://results.botanacor.com/api/v1/coas/uuid/ce716a37-1f23-4c71-9c4e-01d4968dfad2

Definitions
LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or – the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa *(0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 100,000 CFU.

Cert #4329.02
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